**NAME:…………………………………………….………….. INDEX NO: ………………..…..DATE………**

**SCHOOL:……………………………………………………... CANDIDATE’S SIGNATURE: ……..………..**

**CLASS:…………………………………. . ADM NO:……………………………………….**

**TERM 1 2021 CASPA**

**AMUKURA PARISH EXAM**

**231/3**

**BIOLOGY**

**PAPER 3 (PRACTICAL)**

**TIME: 13/4 Hours**

**INSTRUCTIONS TO CANDIDATES**

* *Write your* ***name, Admission******number*** *and* ***name of your school*** *in the spaces provided above*
* ***Sign*** *and write the* ***date*** *of examination in the spaces provided.*
* *This paper consists of three questions*
* *Answer* ***all*** *the questions in the spaces provided.*
* *You are required to spend the first 15 minutes of the 13/4 Hours allowed for this paper reading through all the questions before commencing your work.*
* *This paper consists of 5 printed pages.*
* *Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.*

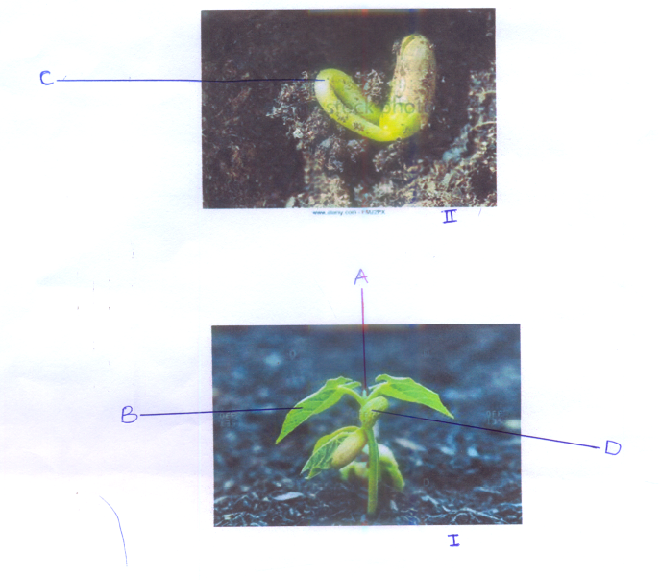
**For Examiners Use Only**

|  |  |  |
| --- | --- | --- |
| **Question** | **Maximum score** | **Candidate’s score** |
| **1** | **14** |  |
| **2** | **13** |  |
| **3** | **13** |  |
| **Total Score** | **40** |  |

1. You are provided with solution W in a boiling tube. Using the provided reagents, carry out possible food tests to identify food substances present in solution. **(14marks)**

|  |  |  |  |
| --- | --- | --- | --- |
| **FOOD SUBSTANCE** | **PROCEDURE** | **OBSERVATION** | **CONCLUSION** |
|  |  |  |  |

1. Examine the photographs I and II of seedling specimen shown below and answer the questions that follows;



a) Name the parts labelled A, C and D. **(3 marks)**

A\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

C\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

D\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b)(i) Name the class to which the specimen belongs.  **(l mark)**

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(ii) Give two reasons, using observable features to support your answer in (b) (i) above **(2 marks)**

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(c) Give two functions of the structure labeled D. **(2 marks)**

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d) Explain how the curvature labeled C is formed **(3marks)**

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e) Name the type of germination exhibited by the seedlings. Give a reason for your answer. **(2marks)**

**Type**

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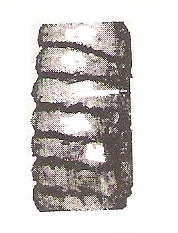
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**Reason**

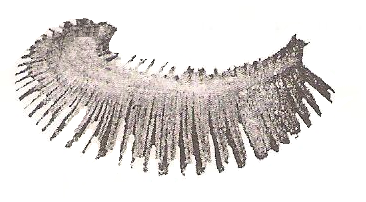
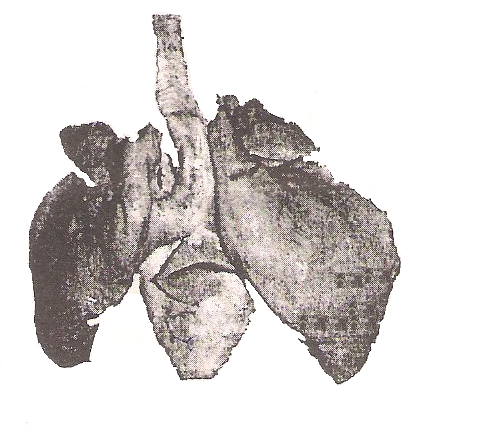
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1. Below are photographs labelled J and K of organs obtained from different animals. The organs perform similar functions. Examine them.



**1**



**W**

**X**

**Y**

**Z**

**Part labelled W Enlarged**

**Photograph J**

**Photograph K**

**3**

**2**

1. Name the phylum to which the organs were obtained from **(1 mark)**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Identify the organs. **(2 marks)**

J\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

K\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. State the function performed by the organs. **(1 mark)**

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1. Name the parts labelled X, Y and Z in **photograph J** **(3 marks)**

X\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Y\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Z\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Identify the parts labelled 1, 2 and 3 in **photograph K**. **(3 marks)**

**1**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Using observable features, state how the parts labelled **1** and **3** you identified in **(d)** above

are adapted to their functions **(3 marks)**

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